Parker Street Waste Site
Public Information Plan (PIP) Meeting

Wednesday – September 22, 2010

Agenda

- **Updates/new developments/future activities**
  - Walsh, NBHS, Acquired Residential Properties, New McCoy Field, Nemasket Street Lots, Keith Middle School.
  - Public involvement
- **Community Questions**
  - Responses to questions posed by the Community to the Department of Environmental Stewardship
  - Included, where appropriate, in the above subject areas.

City LSP Role

LSP Responsibilities

- **310 CMR 40.0191 Accurate and Complete Record Keeping** *"No person shall make, or cause any person to make, any false, inaccurate, incomplete or misleading statement in any document which that person keeps or is required to keep pursuant to M.G.L. c. 21E, 310 CMR 40.0000"*
- **Disclosure of Material Facts (310 CMR 40.0015)** *"identify in the LSP Opinion the material facts, data and other information known … about the disposal site that is pertinent to the LSP Opinion"*
- **Certification of Submittals (310 CMR 40.0009)** *"…attest under the pains and penalties of perjury …the material information contained in this submittal is… true, accurate and complete…"*

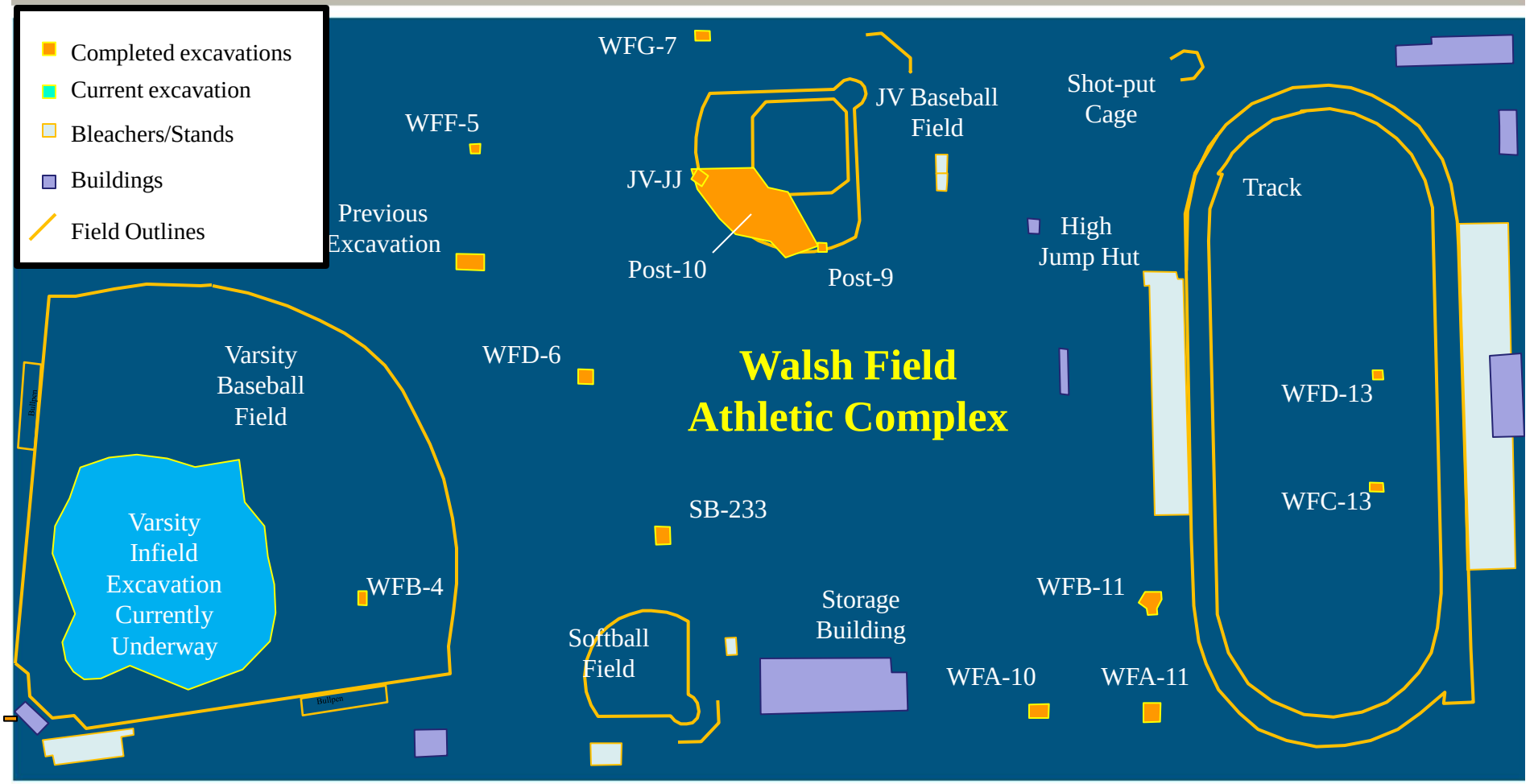
Walsh Field

Walsh Field Remediation

Soil Excavation and Landfill Re-use

- **Risk summary**
  - ***It is safe to use the athletic fields.***
  - Risk assessment based on hundreds of soil samples.
- **Actions Taken in Spring 2010**
  - Varsity Field water line installation (June 10th).
- **Remaining activities**
  - Varsity ball field soil removal nearing completion.
  - Restoration to follow (~ 1 month duration).
  - Varsity improvements
  - Close out reporting
- **Closure report – 3/25/2011**
  - Risk assessment
  - Activity and use limitation

Excavation Locations at the Walsh Field Athletic Complex



Water Line Excavation

New Bedford High School

April to September Activities

New Bedford High School

Summer 2010 Remedial Action

- Replaced 31 Univents containing polychlorinated biphenyls (PCBs) and asbestos
  - PCBs in univent coating
  - Asbestos in vinyl tile, pipe wrap and univent coating
  - Removed under containment (negative air enclosures)
  - Air/wipe sampling before removing containment
- Replaced painted sheet rock in 3 rooms (2010).
  - PCBs in original wall paint
    - **Rooms B-230, A-211-3, and A-213-4**

New Bedford High School

Summer 2010 Interior Remedial Action

- Regulatory matters
  - **Asbestos –**
    - Removal plans prepared by individuals licensed by the Commonwealth of Mass Division of Occupational Safety (MADOS) as Asbestos Project Designers, executed by MADOS licensed abatement contractors, and overseen by MADOS licensed project monitors.
  - **MADOS role –**
    - MADOS performed a project site inspection.
  - **PCBs –**
    - PCB removal planned, implemented and overseen by qualified environmental contractors and performed with EPA approval.

New Bedford High School

Building materials

- **Planning next interior work phase**
  - Foam furnishing, light fixtures/old ballasts, painted surfaces
  - Submit removal and abatement plan to EPA (Winter 2010/2011)
  - Target Summer 2011 implementation

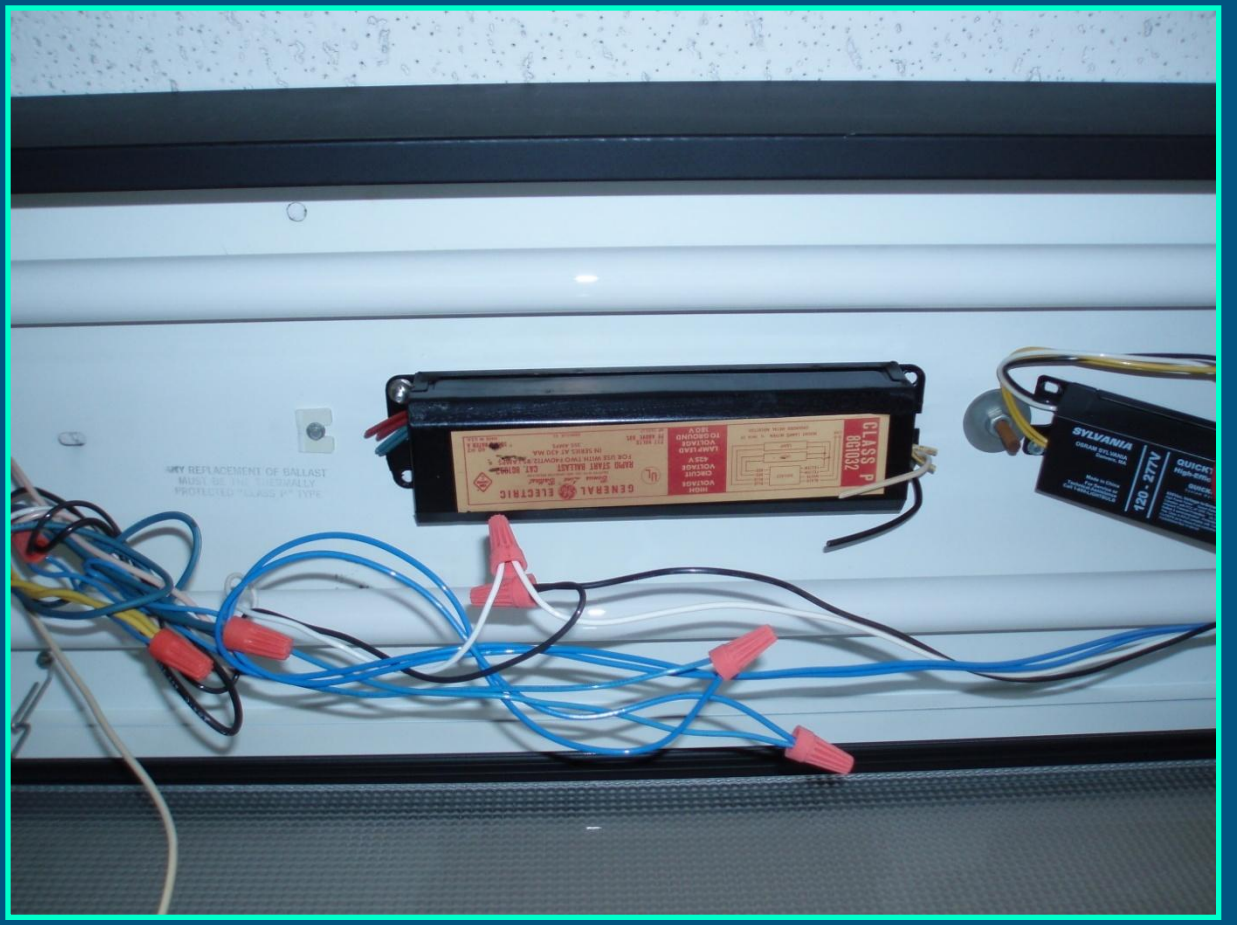
Fluorescent Light Ballasts

Ongoing Inventory and Inspection

- Energy-related ballast replacement in 2005/2006
  - Replacements focused on classrooms.
  - Continued use is O.K. per EPA regulations (non-leaking).
- On-going inventory into Fall 2010
  - Identify remaining old ballast units.
  - Inspect fixtures for prior ballast releases (if any).
  - Follow-up, if needed, to be evaluated following the inventory in consultation with EPA.

Fluorescent Light Ballast

Example Photograph from NBHS



Indoor Air Monitoring for PCBs

Recent sampling/Planning for Future Round

- Previous round conducted on February 20, 2008
  - 31 samples including duplicates and background
  - 8 non-detect, 21 below EPA Action Limit, 2 above EPA Action Limit***…all results below EPA's risk threshold.***
- Recent sample collection
  - Daycare room (A-227-4), collected in duplicate.
  - ***All results below EPA thresholds (in validation).***
- Upcoming round of PCB indoor air monitoring
  - Informed by bulk database, inventory of ballasts, HVAC analysis, and other guidance.

NBHS Soil Sampling for Dioxins (April 2010)

Summary of Investigative Technical Approach

- **Sampling summary**
  - Five soil borings, 16 soil samples.
  - Top foot, 1-3 feet, and fill.
- **What we looked for….**
  - Chlorinated dioxins & dibenzofurans & polychlorinated biphenyl (PCB) congeners; polyaromatic hydrocarbons (PAHs), Metals and PCB aroclors.
  - Volatile Organic Compounds (VOCs) (other analyses) if warranted by screening.
- **Previous information helped identify sample locations**
  - Geographic coverage
  - Locations where dioxin levels were most likely to be the highest.

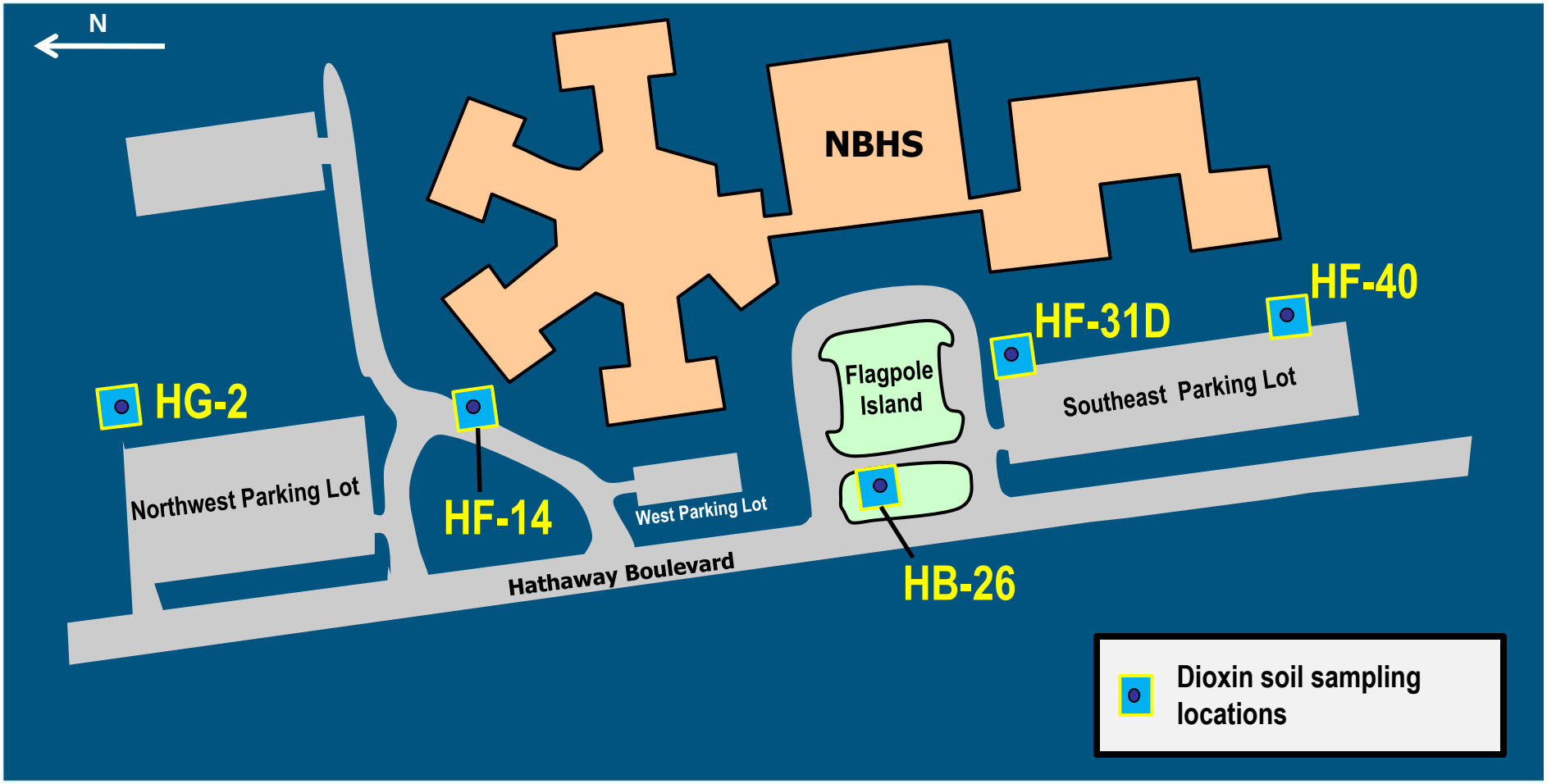
NBHS Soil Sampling for Dioxins (April 2010)

Discussion of Results

- **Results Expressed as *Toxic Equivalents* or *TEQ***
  - Combines toxicity information and laboratory results.
  - Calculated by MassDEP method (see City website).
- **Results summary**
  - PCB, metals, and PAH results consistent with prior data.
  - Dioxin concentrations higher with depth.
  - Site-specific risk assessment shows no significant risk in top foot.
  - Consistent with urban background.
  - Data under review by MassDEP

NBHS Soil Sampling for Dioxins

Approximate Sample Locations



Volatile Organic Compound (VOC) Investigation

Findings from April Vacation 2010 Data Collection

- **Collected 12 indoor air samples (April 2010)**
  - Low concentration detections
    - Ten of twelve samples below MassDEP screening levels.
    - Chlorinated and non-chlorinated (e.g., benzene) volatile organic compounds.
    - No exceedance in Classroom A-3-112/No subsurface impacts.
    - Mechanical Room exceedances.
    - Lecture Room source requires further evaluation (D-120).
    - No Imminent Hazard condition or current chronic risk.

Volatile Organic Compound (VOC) Investigation

Findings from April Vacation 2010 Data Collection

- **Sampled 8 permanent soil gas points (April 2010)**
  - Concurrent with indoor air sampling
  - Mechanical Room soil gas point sampled twice
  - Concentration detections
    - **No VOCs above MassDEP screening levels in six of eight soil gas points.**
    - **Detections:**
      - **Chlorinated VOCs**
      - **Benzene and related compounds**
    - **Vinyl chloride detected in Mechanical Room samples only.**

Volatile Organic Compound (VOC) Investigation

Findings from April Vacation 2010 Data Collection

- **Sampled 10 groundwater monitoring wells (April 2010)**
  - Five existing and five newly installed monitoring wells
  - No VOCs in excess of state standards in eight of ten monitoring wells
  - Low concentration detections
    - **Chlorinated volatile organic compounds (e.g., vinyl chloride)**
    - **Relatively small source area of VOC impacts**
  - Supplemental groundwater elevation gauging

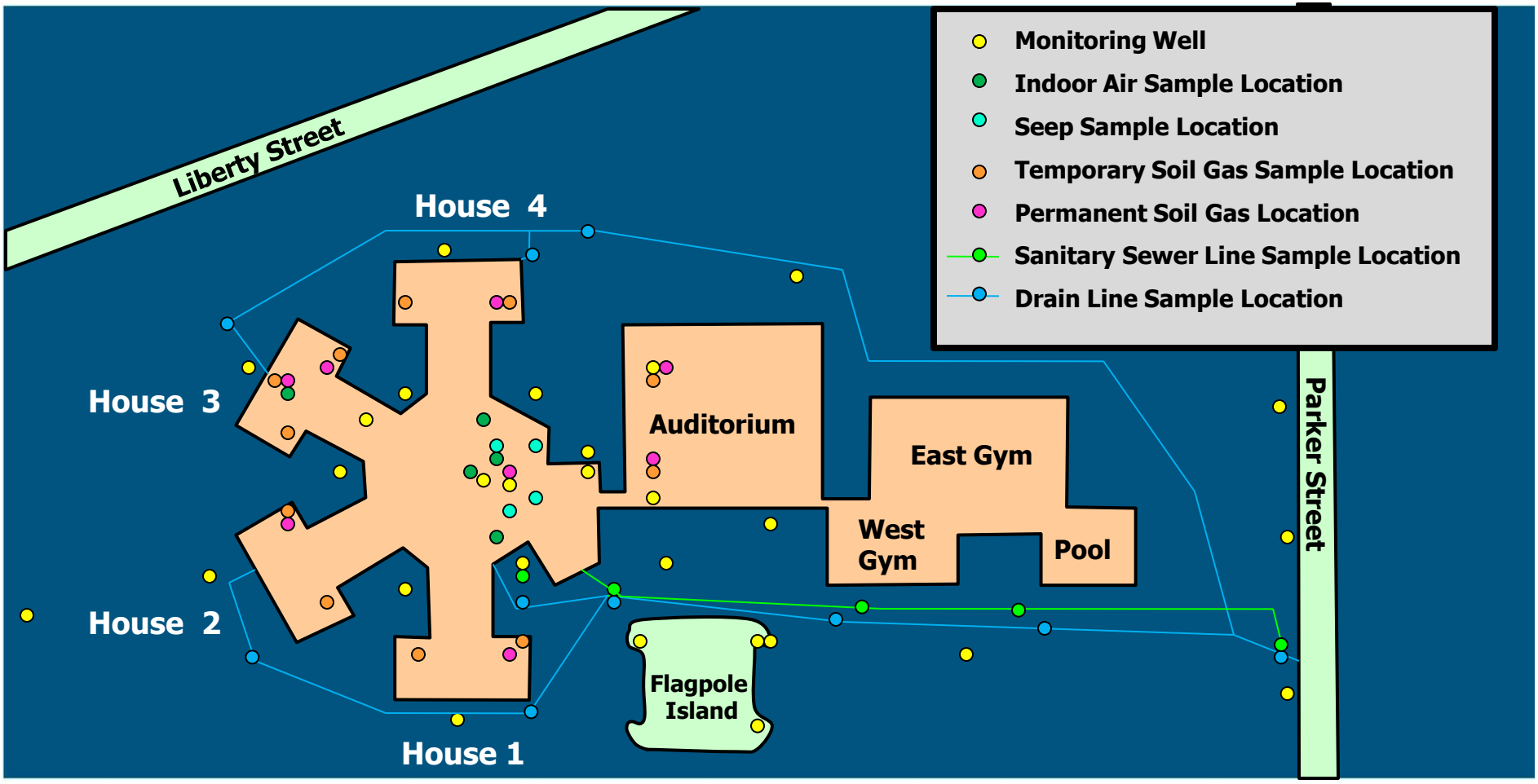
Volatile Organic Compound (VOC) Investigation

Supplemental Data Collection – August/September 2010

- **Indoor air VOC sampling - three locations (August 2010)**
  - Classroom A-3-112, Mechanical room B-114, Lecture room D-120
  - No seep-related chlorinated VOCs detected.
- **Groundwater monitoring wells**
  - Horizontal extent (2 wells), Mechanical Room sub-slab (2 wells), pipe tunnel (1 well), vertical extent (2 wells)
  - Bedrock encountered at 19 feet (back) and 31 feet (front).
  - Separate phase material (a non-aqueous phase liquid, or a liquid that doesn't dissolve in water) noted in one Mechanical Room well.
  - ***We will update you with analytical results ASAP.***

New Bedford High School

Volatile Organic Compound (VOC) Investigation Locations



Community Questions – NBHS

Q. Is there a report as to how much money has been used for all the remediation taking place at the NBHS? Not only that but how much more will be needed for long term maintenance? Why not build a new school?

A. The City is in the process of accounting for the remediation expenses associated with the high school to date, and expects that this information will be available to the public by October 6th. Without knowing the full extent of future work, the City is not able to accurately estimate that cost. The current school is safe to use.

New Bedford High School

Upcoming Work

Soil Excavation Area

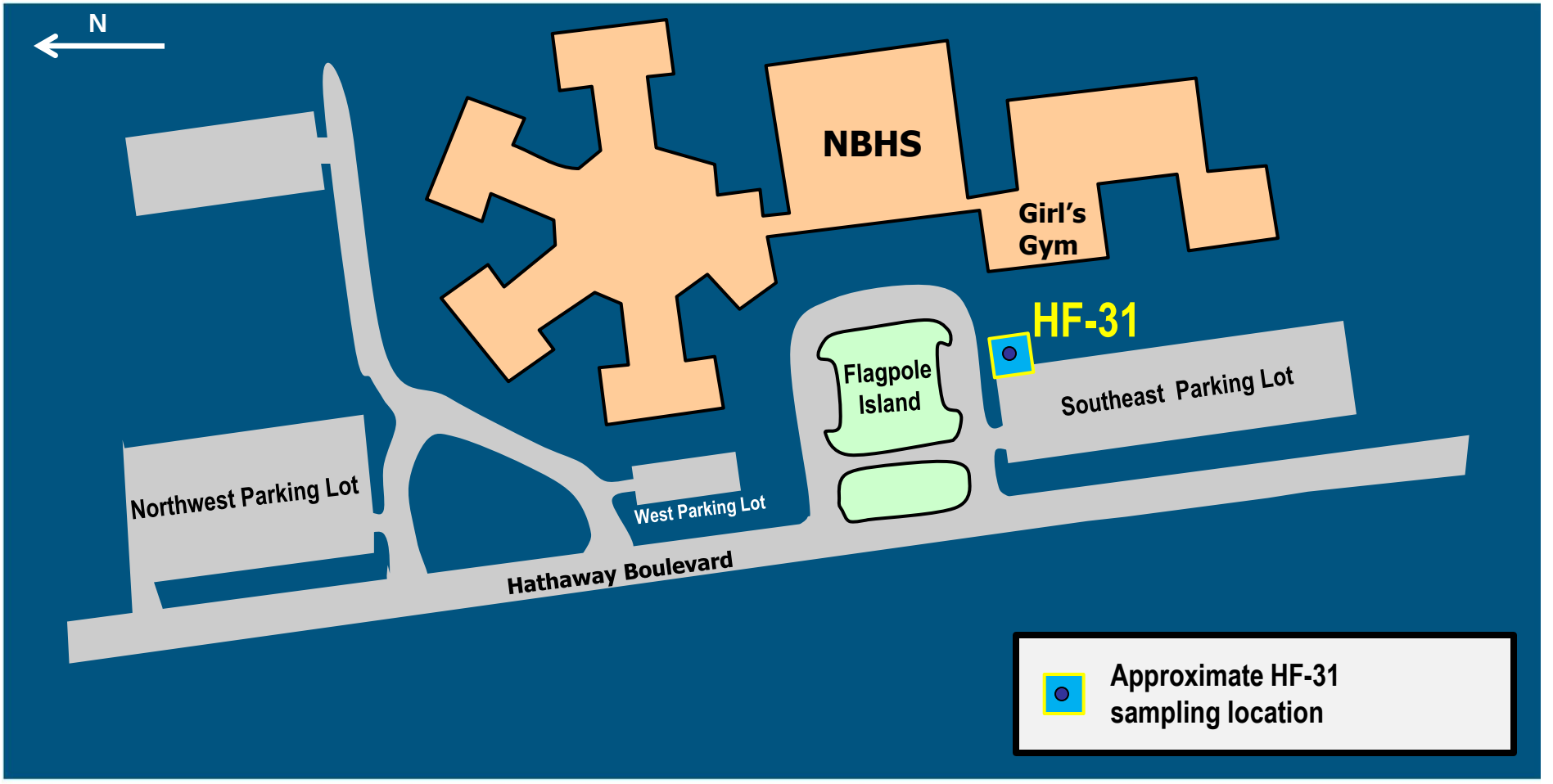
In front of Girl's Gymnasium Building

(Area of sample location HF-31)

- **PCB impacted soil 1-3 feet below surface**
  - Prepare and issue draft Release Abatement Measure (RAM) Plan for public comment - 10/22/2010
  - Twenty day public comment period.
  - Obtain approval from Environmental Protection Agency and Massachusetts Department of Environmental Protection.
  - ***Work will be conducted when school is not in session (i.e., holiday breaks, weekends, vacations).***

New Bedford High School

Approximate HF-31 Soil Sample Location



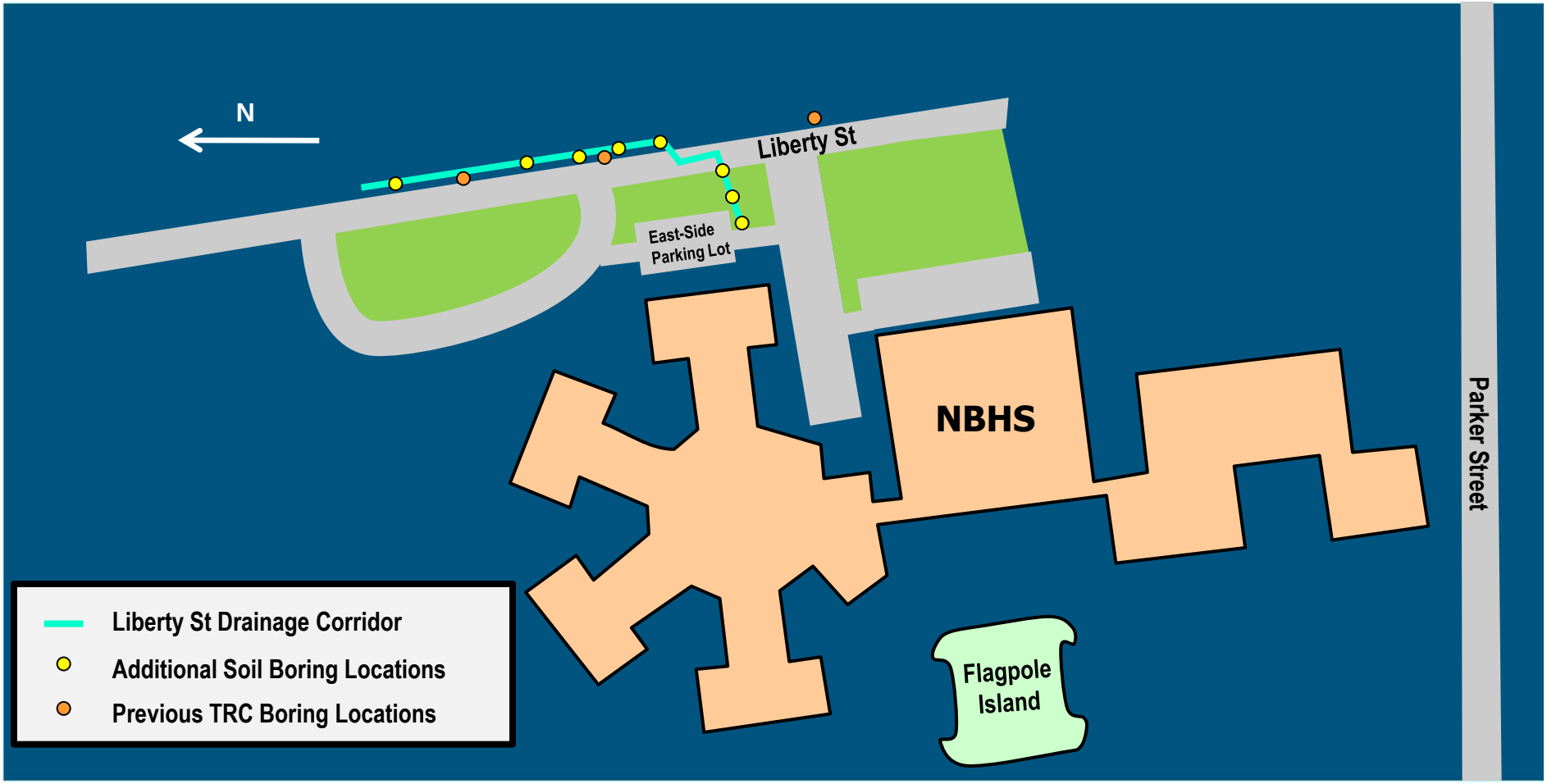
NBHS-Liberty Street Drainage Line

Status of Proposed Drainage Improvement Project

- **Characterized drainage line area**
  - Existing data from prior work (60 soil samples)
  - Eight additional soil borings (three on NBHS campus) sampled for PCBs.
- **EPA reviewed data to evaluate jurisdiction**
  - August 17, 2010 Letter: *EPA approval not required.*
- **Falls under MassDEP jurisdiction**
  - Filed Utility-Related Abatement Plan (URAM) – 7/16/2010
- **Installation to be scheduled by City's DPI**
  - We will keep you posted.

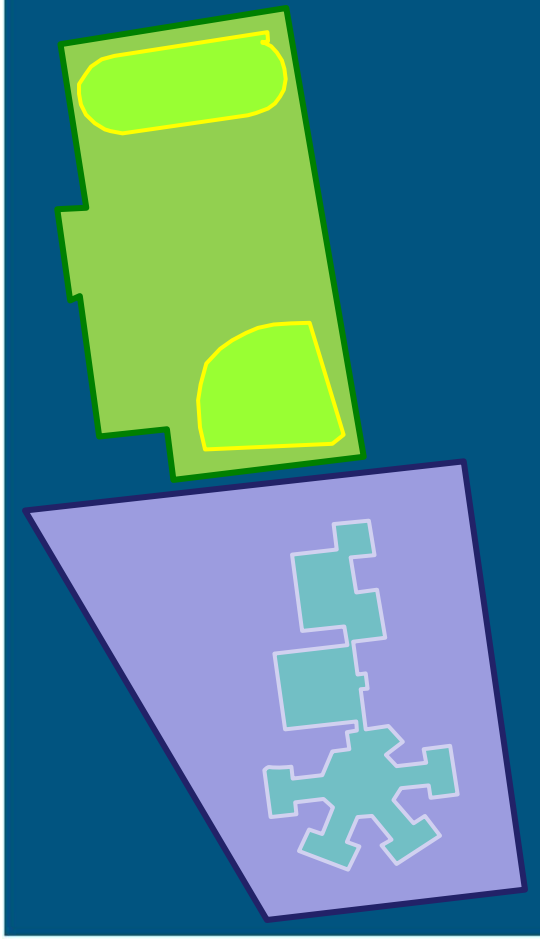
New Bedford High School

Approximate Liberty Street Drainage Work Location



Regulatory Submittals

Walsh Field/NBHS Campus



- **TRC Interim Comprehensive Site Assessment Report (Phase II)**
  - Covered NBHS and Walsh Field
  - Submitted July 21, 2009 (5,000+ pages)
  - No significant risk in top foot.
  - Currently being updated
- **Final NBHS Phase II**
  - January 14, 2011
- **Modified IRA Plan (seep)**
  - January 21, 2011
- **RAM Plan (or Phase III/IV)**
  - February 11, 2011

Acquired Residential Properties

Acquired Residential Properties

101, 102, 111 Greenwood / 98, 108, 118 Ruggles Streets

- **Purpose of demolition**
  - ***Interim step toward cleanup.***
- **Pre-demolition activities**
  - Removed asbestos and "household" hazardous materials
  - Disconnected utilities – electricity, gas (sewer and water were disconnected after demolitions were completed)
  - Sampled foundation and soil
- **Demolition of buildings**
  - Completed by DPI on July 24th
  - ***No soil removal performed.***

Summary of Work

Demolition Activities Conducted

- **PCB impacted concrete and foundation insulation**
  - Hauled off-site on 7/21-23 & 26-27/2010
  - Disposed of at approved landfills
    - **102 Greenwood Street – EQ Michigan**
    - **118 Ruggles Street – Turnkey, New Hampshire**
- **MassDEP-approved plan modification**
  - Removal/disposal of un-impacted foundation walls as solid waste.
    - **101 and 111 Greenwood Street**
    - **98 and 108 Ruggles Street**
  - Accepted at Crapo Hill Landfill – 7/26-27/2010
  - Cost-benefit analysis - crushing equipment, time and disposal cost.
- **Foundations backfilled with documented clean soil**

Summary of Work

Other activities related to the demolition project

- **Disposed of miscellaneous aboveground structures**
  - Sheds, pools, etc.
- **Minimal temporary soil excavation activity**
  - Utility disconnects
- **Extensive use of water sprays for dust suppression**
  - Environmental oversight, dust monitoring, volatile organics monitoring.
    - **Excellent results. No action levels exceed.**
- **Initiated vegetative cover**
  - Hydroseed
- **Implementation schedule**
  - Finished ahead of schedule

Acquired Residential Properties

Future Activities

- Prepare/issue RAM Completion Report for the demo work.
  - September 2010
- Conduct data collection and prepare a Phase II report.
  - 5/20/2011
- Determine future use of parcels.
  - Currently exploring retaining as green space.
- Develop conceptual remedial approach.
  - RAM plan Summer 2011

- ***In the mean time, the Department of Public Facilities (at (508) 979 -1524) will maintain the parcels.***

New Andrea McCoy Field
Nemasket Street Lots
Keith Middle School

New McCoy Field (Fmr. Keith Jr. High)

- **Construction/remediation activity**
- **Going forward**
  - File site closure report in 2010 (partial Response Action Outcome, or RAO), demonstrating that a condition of "No Significant Risk" has been achieved
  - Implement activity and use limitation (AUL), or deed restrictions which identifies the conditions on the site which must exist to maintain the condition of "No Significant Risk" (e.g., soil management plans for certain excavation activities).

Nemasket Street Lots

Formerly known as the Bethel AME Parcels

- **Background**
  - Limited prior soil investigation.
    - **BETA soil borings**
- **Initial Investigation plan**
  - Geophysics
  - Test pits
    - **Field screening**
    - **Initial soil sampling***
- **Subsequent investigation**
  - ***To be determined***
  - Soil borings/analysis
  - Test pits
- **Key elements**
  - Removal of brush/clearing of work areas expected to start Sept. 29th
  - Forensic investigation
- **Going forward**
  - Develop data collection plan
  - Incorporate into residential area Phase II
  - Develop remedial plan

* Best professional judgment in consultation with LSP.

Keith Middle School

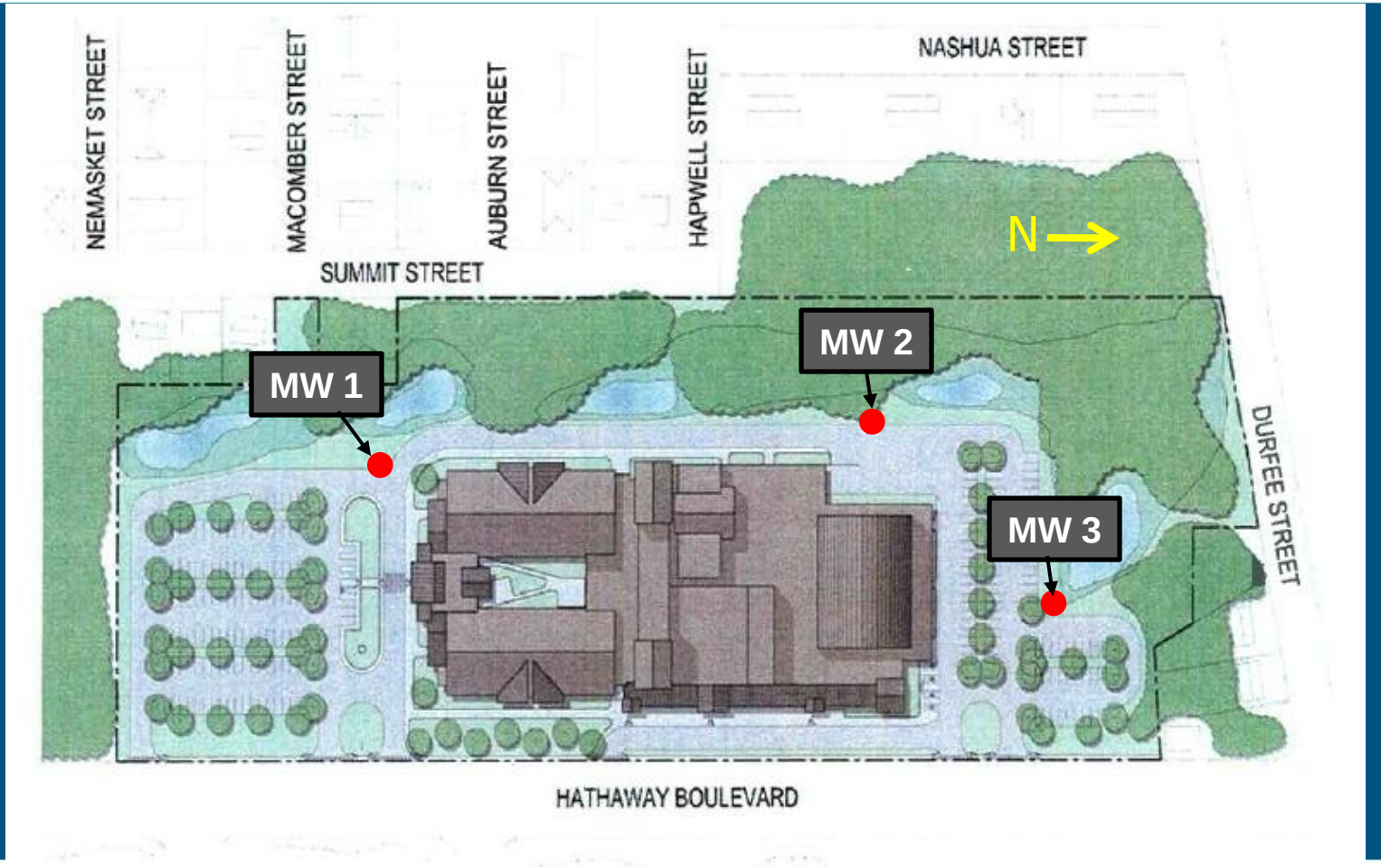
Keith Middle School - Regulatory Process Update

- **Wetland Sediment PCB – Immediate Response Action**
  - Status Report - March 10, 2010
  - Fence installation completed – Fall 2009/Winter 2010
  - Investigation, ecological risk assessment, and remedial planning on-going

- **Long-Term Monitoring, Maintenance and Implementation Plan (LTMMIP)**
  - Cap Inspections – three-times/year – 2010 completed 2 of 3.
  - Indoor Air and Vent Monitoring – three-times/year – 2010 conducted 2 of 3.
  - Wetland Inspection – once/year – 2010 completed.
  - Groundwater Sampling – twice/year – 2010 completed.
  - Site Personnel Training – once/year – 2010 completed .

Update/Keith Middle School

LTMMIP Groundwater Monitoring Well Locations



Update/Keith Middle School

Wetland

- **Ecological risk assessment**
  - Getting finalized – will be submitted to MassDEP on or before November 5, 2010
- **Going forward**
  - Prepare Phase II report (Summer 2011)

KMS Indoor Air and Vent Monitoring

Update/Keith Middle School

Air Monitoring for Polychlorinated Biphenyls

- Air concentrations of PCBs at KMS are similar to or less than background air concentrations.
- PCBs below EPA Action Level (0.05 ug/m^3).
- PCBs present in vent samples periodically.
- Risk evaluation shows risk below MassDEP criteria.

Update/Keith Middle School

Air Monitoring for Volatile Organic Compounds (VOCs)

- **VOCs in vents decreasing in concentration over time**
  - Includes compounds in detected soil gas, indicating that the system is performing as designed.
- **VOCs detected in indoor air**
  - Background concentrations (off-gassing of building materials)
  - Also attributable to maintenance activities

Other Community Questions

Community Questions

About ATSDR – Agency for Toxic Substances and Disease Registry

- Who is ATSDR and what do they do?
- What does the current study consist of and how is the information being collected?
- Regarding the time line for the study, when is the meeting with ATSDR going to take place? We are looking for a commitment date if possible.
- How will ATSDR handle the process for information dissemination to the public? Will there be separate meetings to handle the areas individually?

Public Involvement

- Quarterly Public Meetings/Periodic Milestone Meetings
- Targeted meetings for interest groups (e.g., teachers)
- Massachusetts Contingency Plan Requirements
- On-line Posting of Data and Project Documents
- Significantly re-vamped Department website
- Weekly Updates of Planned Activities – Newspaper/City website
- E-mail updates of new postings.
- Fact sheets (hard copy and website).
- Meeting announcement flyers for KMS/NBHS students/staff.
- I-Alert System for meeting announcements
- 20-day public comment periods for remedial work plans

Public Engagement

- City website

http://www.newbedford-ma.gov/McCoy/sitemap/sitemap.html

- Contact **Cheryl Henlin** to be added to the e-mail and/or mailing list for information regarding the Parker Street Waste Site at **(508) 961-4576** or PSWS@newbedford-ma.gov

Reminder: Reports, presentations, data availability, etc.

Just click on the interactive map…

http://www.newbedford-ma.gov/McCoy/sitemap/sitemap.html

Thank You for Your Time and Attention

Questions are Welcome